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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/483,386	01/13/2000	Li-Wen Chen	19608-000230US	8309
7590 05/12/2004			EXAMINER	
Dr. Li Wen Chen			COLBERT, ELLA	
MetaEdge Corporation 5201 Great America Parkway			ART UNIT	PAPER NUMBER
Suite 238			3624	
Santa Clara, CA 95054			DATE MAILED: 05/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/483,386	CHEN, LI-WEN
Office Action Summary	Examiner	Art Unit
· .	Ella Colbert	3624
The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address
Period for Reply	VIC SET TO EVRIRE MO	NTU(S) EDOM
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron s, cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 09 N	<u>larch 2004</u> .	
<u> </u>	s action is non-final.	
3) Since this application is in condition for allowa	nce except for formal matters, pr	osecution as to the merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>2-6,11,21-24,29,31,32 and 39-55</u> is/a	re pending in the application.	
4a) Of the above claim(s) is/are withdra		
5) Claim(s) <u>2-6,11,21-24,29,31,32 and 39-42</u> is/a		
6)⊠ Claim(s) <u>43-55</u> is/are rejected.		_
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9) The specification is objected to by the Examine	ar	
10) The drawing(s) filed on is/are: a) acc		Examiner
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct	- · · ·	• •
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	e Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 110/c	a) (d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document)-(d) 01 (1).
2. Certified copies of the priority document		tion No
3. Copies of the certified copies of the prio	• •	
application from the International Burea	·	<u>.</u> .
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary	y (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	oate
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informal I 6) Other:	Patent Application (PTO-152)

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DETAILED ACTION

- 1. Claims 2-6, 11, 21, 22, 24, 29, 31-3, and 39-42 and newly added claims 43-55 are pending. Claims 2-6, 6, 11, 21, 22, 24, 29, 31-33, and 39-42 have been amended, claims 1, 12-15, 20, 30, and 38 have been cancelled, and claims 43-55 have been added in this communication filed 03/09/04 entered as Amendment B, paper no. 20,
- 2. The RCE filed 03/09/04 has been entered as paper no. 19.
- 3. The Extension of Time for three months filed 03/09/04 has been entered as paper no. 18.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title." *Diamond v. Chakrabarty*, 447 U.S. 303, 308-09, 206 USPQ at 193, 197 (1980).

5. Claims 43-55 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two-prong test of:

- (1) whether the claimed subject matter is directed to a "practical application"; or
- (2) whether the invention produces "a useful, concrete and tangible result.", that is, whether the claimed subject matter is applied in a practical manner to produce a useful result. "[C]ertain types of mathematical subject matter, standing alone, represent nothing more than abstract ideas until reduced to some type of practical application, i.e., 'a useful, concrete and tangible result.' (State Street, 149 F.3d 1373, 47 USPQd at 1600-01 (citing Alppat, 33 F.3d 1544, 31 USPQ2d at 1557)).

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For a claimed invention to be statutory, the claimed invention must be within the technological arts. Mere ideas in the abstract (i.e., abstract ideas, law of nature, natural phenomena) that do not apply, involve, use, or advance technological arts fail to promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) and therefore are found to be non-statutory subject matter. For a process claim to pass muster, the recited process must somehow apply, involve, use, or advance the technological arts.

(A) In the present case, claims 43-55 recite an abstract idea only. The recited method and steps of the claims merely, a) organized according to a first data schema, defining a virtual data model, determining from the virtual data model, receiving input, creating a third database, creating a first mapping, creating a second mapping, selectively migrating information, and a virtual data model in claim 43; and b) receiving a definition, generating a data warehouse, providing the data warehouse, receiving input, dynamically creating a database, creating a first dimension, creating a fact table, and displaying a portion of the dynamically generated database in claim 48; and (c) creating a mapping, migrating data from a data source, and providing data do not apply, involve, use, or advance the technological arts since all of the recited method steps can be performed in the mind of the user or by use of a pencil and paper. These steps only constitute an idea of how to analyze and visualize information. The claims do not have a computer performing the method in the preamble or a computer in the body of the claims performing the organizing, receiving a definition, and creating a mapping.

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In addition, for a claimed invention to be statutory, it must produce a useful, concrete, and tangible result. In the present case, the claimed invention produces a method for the virtual data model to comprise a reverse star schema, receiving a definition of a reverse star schema meta-model and providing the data to the OLAP server (i.e., useful and tangible).

Although the recited process produces a useful, concrete, and tangible result, since the claimed invention, as a whole, is not within the technological arts as explained above, claims 43-55 are deemed to be directed to non-statutory subject matter.

With respect to the rejection under 35 U.S.C § 101, the Examiner asserts that the claimed invention does not fall within the technological arts because no form of technology is disclosed or claimed.

Allowable Subject Matter

6. Claims 29, 39, and 40 are allowed.

The following is an Examiner's statement of reasons for allowance: claim 29 reciting "virtual data model comprises a reverse star schema", claim 39 reciting "code for generating a data warehouse populated with the information from the source database and in accordance with the reverse star schema meta-model", and claim 40 reciting "the meta-model schema is a reverse star schema" was not shown or suggested by the prior art of record.

7. The dependent claims 2-6, 11, 21-24, 31-33 and 41-42 being further limiting to the independent claims, definite and fully enabled by the Specification are also allowable.

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Claims 43-55 will also be allowable once the 35 U.S.C. 101 rejection is overcome.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

8. Applicant's arguments with respect to claims 1-6, 11-15, 20-24, 29-33, 38, 41 and 42 have been considered but are moot in view of the new ground(s) of rejection.

Inquiries

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 703-308-7064. The examiner can normally be reached on Monday-Thursday from 6:30 am -5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached on 703-308-1038. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

E. Colbert

May 10, 2004